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TITLE: AUTOANTI DIES TO GLUCOSE-6-PHOSPHATT SOMERASE AND THEIR ARTICIPATION IN AUTOIMMUNE DISLASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

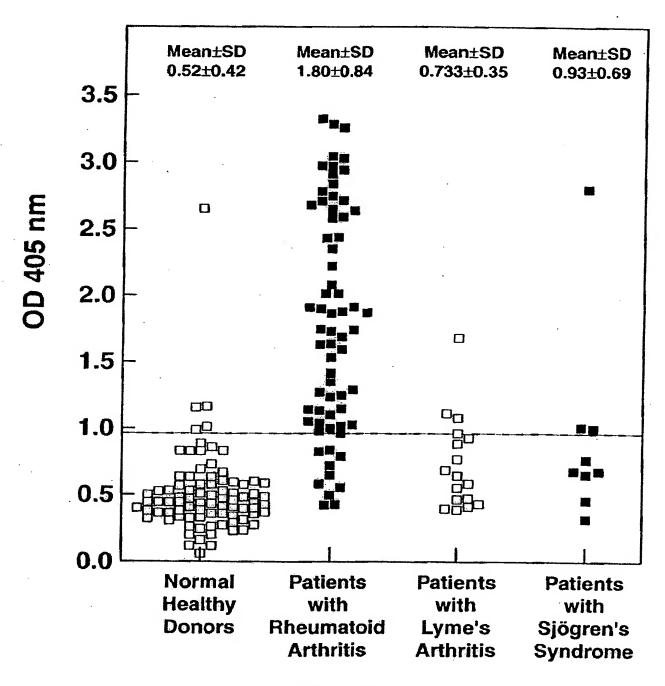


FIG. 1A

TITLE: AUTOANTIBUJIES TO GLUCOSE-6-PHOSPHATE SOMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al. SERIAL NO.: 09/828,708

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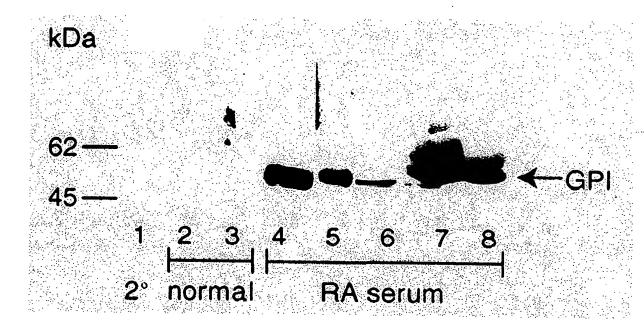


FIG. 1B

TITLE: AUTOANTIF DIES TO GLUCOSE-6-PHOSPHATE OMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

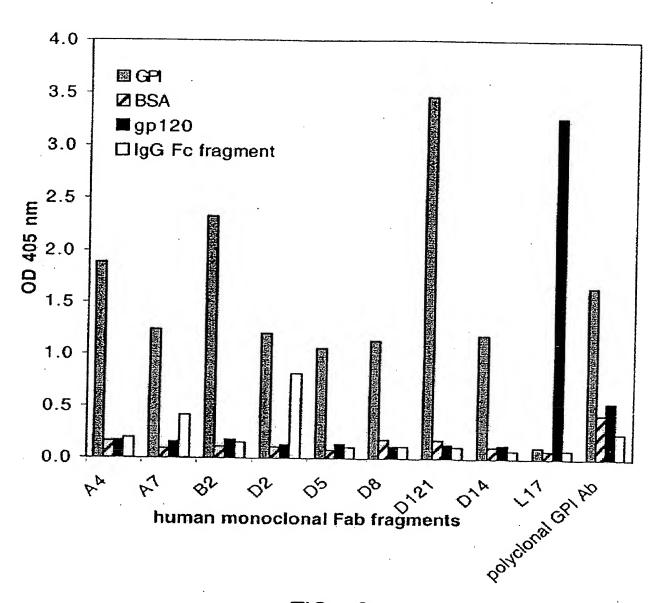


FIG. 2

TITLE: AUTOANTIE TIES TO GLUCOSE-6-PHOSPHATE OMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISLASE INVENTORS NAME: Henrik Ditzel et al. SERIAL NO.: 09/828,708

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					•					•		
		QPPKLLIY KAPKLLIY QAPRLLIY	QPPKLLIY	QAPRLLIY	QAPRLLIY	QAPRLLIY	FR4	FGQGTKLEIKRTVA FGGGAKVGIRRTVA FGQGTKVEIKRTVA	FGQGTKLEIKRTVA	FGQGTRLEIKRTVA	FGQGTRLEIKRTVA	FGQGTKVEIKRTVA
ednences	FR2	A WYQQKPGQPPKLLIY WYQLKPGKAPKLLIY WYQQKPGQAPRLLIY	A WYQQKPGQPPKLLIY	WYQQRPGQAPRLLIY	WYQQKPGQAPRLLIY	WYQQKPGQAPRLLIY	CDR3	QQYYDSYT QQLNSYPLT QQYGSSPRT	QQYYDSYT	QQYDNVPDT	QQYGTSPL	QQYGSSPRT
Light Chain Variable AA Sequences	CDR1	KSSQSVFYTSNNKNYLA RASQGISSYLA RASQSVSSSYLA	KSSQSVFYTSNNKNYLA	RASQSVSSSYLA	RASQSVSSSYLA	RASQSVSSSYLA		O	GVPDRFSGSGSGTDFTLTISSLQAEDVAVYYC			
	FR1	PDSLAVSLGERATINC PSFLSASVGDRVTITC PGTLSLSPGERATLSC	PDSLAVSLGERATINC	PGTLSLSPGEGATLSC	PGTLSLSPGEGATLSC	PGTLSLSPGERVTLSC	FR3	GVPDRFSGSGSGTDFTLTISSLQAEDVAVYY GVPSRFSGSGSGTEFTLTISSLQPEDFATYYC GIPDRFSGSGSGTDFTLTISRLEPEDFAVYYC	GVPDRFSGSGSGTDFT	GIPDRESGSGSGTDFSFTISSLQPEDTGTYYC	GIPDRESGSGSGTDFTLTISRLEPEDFAVYYC	GIPDRESGSGSGTDFTLTISRLEPEDFAVYYC
	SEO ID NO:	7 2 5	4	8	9	7	CDR2	WASTRES AASTLQS GASSRAT	WASTRES	GASSRAT	GASSRAT	GASSRAT
	Name	A4 D2 D121	B2	D14	D5	A7 .	Name cont'd	A4 D2 D121	B2	D14	D5	A7

FIG. 3AL

TITLE: AUTOANTI. JIES TO GLUCOSE-6-PHOSPHATE JOMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DISEASE

PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

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TESVKG AD		AQSFQD ADSVKG	RVFGS	ĄQKFQG	VH gene	VH3 VH3 VH3	VH1 VH3	VH4	VH1
CDR2	LLSSDGSNKFYIESVKG TM. VI.YNK.Y.AD	RINPTGGGVSLAQSFQD RISGNSGSTFYADSVKG	RIYGRGTINYN	RIYGRGTTNYNRVFGS GIIPPFGPVNYAQKFQG		WGQGTLVTVSS	WGQGTVVTVSS WGQGTTVTVSS	WGQGIVVNVFS	WGKGTTVTVSS
FR2	WVRQAPGKGLEWVA	WVRQAPGQGLQWMG WVRQAPGKGLEWVS	WVRQPVGKGLEWIG	WVRQAPGQGLEWMG	CDR3	TAFNY D.	PRFNMIREPLDL DLSSGAYYYYGMDV	DKGSEYSYFDP	VAYDGSGYYNNIPKIYYYSYMD V
CDRI	SHGSH .TM.	GHHIH SYAMN	GDSYFWS	RYAIS		SLVGTTAFNY .EAD.	PRFNM. DLSSG	DKGSE	VAYDG! V
FR1	GGGVVQPGRSLKLSCAASGFTFSAWLRV	GAEVRKPGTSVRISCRASGNTFT GGGLVQPGGSLRLSCATSGFIFN	GPGLVRPSQTLSLTCPVSPGSIK	GAEVKKPGSSVKVSCRASGGTFS	FR3	RFTISKDNSKNTLYLQMNSLRIDDTAVYYCAIRLSPETN	RVSLTRDRSSNTVFLELSGLTEEDTALYFCAR RFTISRDNSKNTAFLRMNSQRAEDTAVYYCAK	RVSMSVDMSRSQFFLELRDVTAADTAVYYCAR	RVTITADDSTNTAYMGLSSLRSGDTAVYYCAR
SEO ID	9 9 10	11	13	14		RFTI	RVSL	RVSM	RVTI
Name	A4 D2 D121	B2 . D14	DS	A7	Name cont'd	A4 D2 D121	B2 D14	DS	A7

Heavy Chain Variable AA Sequences

FIG. 3AH

INVENTORS NAME: Henrik Ditzel et al. SERIAL NO.: 09/828,708

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		6/21	
CDR2 LLSSDGSNKFYIESVKG TM. VI.YNK.Y.AD	RINPTGGGVSLAQSFQD ISST.YKG RISGNSGSTFYADSVKG ASGY	RIYGRGTTNYNRVFGS	GIIPPFGPVNYAQKFQG
FR2 WVRQAPGKGLEWVA	WVRQAPGQGLQWMG E WVRQAPGKGLEWVS	WVRQPVGKGLEWIG	WVRQAPGQGLEWMG
CDR1 SHGSH .TM. .YTF.	GHHIH SYYMH SYAMN	GDSYFWS SGY	RYAIS
FR1 GGGVVQPGRSLKLSCAASGFTFSAWLRV	GAEVRKPGTSVRISCRASGNTFTKAKVKY GGGLVQPGGSLRLSCATSGFIFN	GPGLVRPSQTLSLTCPVSPGSIK	GAEVKKPGSSVKVSCRASGGTFS
SEQ ID NO: 8 9 10	11	13	14
<u>Name</u> A4 D2 D121 DP-46	B2 DP-7 D14· VH26	D5 IGHCAK	A7 VH1-69

1G. 3B

TITLE: AUTOANTIE JIES TO GLUCOSE-6-PHOSPHATE OMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

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Name cont'd A4 D2 D121 DP-46	FR3 RFTISKDNSKNTLYLQMNSLRIDDTAVYYCAI RLSPETN RNER	CDR3 SLVGTTAFNY .EAD.	FR4 WGQGTLVTVSS	VH gene VH3 VH3 VH3
B2 01	RVSLTRDRSSNTVFLELSGLTEEDTALYFCAR	PRFNMIREPLDL	WGQGTVVTVSS	VHI
D14	RFTISRDNSKNTAFLRMNSQRAEDTAVYYCAK	DLSSGAYYYYGM	WGQGTTVTVSS	VH3
VH26		>		
DS IGHCAK	RVSMSVDMSRSQFFLELRDVTAADTAVYYCARTIT,KNS.K.SS	DKGSEYSYFDP	WGQGIVVNVFS	VH4 1/51
A7	RVTITADDSTNTAYMGLSSLRSGDTAVYYCAR	VAYDGSGYYNNI	WGKGTTVTVSS	VH1
VH1-69	KSEB	VALYXXXMUV		

-IG. 3B Cont'd

TITLE: AUTOANT' DIES TO GLUCOSE-6-PHOSPHAT SOMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

le R/S ratio	y FKS CDKs 6/6:1.0 12/5:2.4					-		
% nucleotide	3010111011 89	92	95	79	93	81	94	ان دان
% amino acid	86	87	91	19	87	73	06	ם כ
Closest	DP-46	DP-46	DP-46	DP-7	VH26	IGHCAK	VH1-69	
Clone	A4	D2	D121	B2	D14	D5	A7	

TITLE: AUTOANTIL DIES TO GLUCOSE-6-PHOSPHATE JOMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DISEASE

INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708 **9/21**

	CDR3	SLVGTTAFNY .EAD.		PRFNMIREPLDL	DLSSGAYYYYGMDV	DKGSEYSYFDP	VAYDGSGYYNNIPKIYYYSYMDV	SEQ ID CDR3 NO:	50 QQYYDSYT 51 QQLNSYPLT 52 QQYGSSPRT	53 QQYYDSYT	54 QQYDNVPDT	55 QQYGTSPL	56 QQYGSSPRT
y Chain	SEQ ID	30	31	32	33	34	35	t Chain					
CDR's Heavy Chain		Y.AD	Y.AD	SLAQSFOD	PYADSVKG	IYNRVFGS	NYAQKFQG	CDR's Light Chain	WASTRES AASTLQS GASSRAT	WASTRES	GASSRAT	GASSRAT	GASSRAT
	CDR2	LLSSDGSNKFYIESVKG	VI.YNK.Y.AD	RINPTGGGVSLAQSFQD	RISGNSGSTFYADSVKG	RIYGRGTTNYNRVFGS	GIIPPFGPVNYAQKFQG	SEQ ID	4 4 4 ይ 4 3	46	74	48	4,
	SEQ ID	222	24	25	56	27	28		INKNYLA 4 .a	TSNNKNYLA	Ą	ĕ r∵	4
	CDR1	SHGSH	.YTF.	СИНІН	SYAMN	GDSYFWS	RYAIS	CDR1	KSSQSVFYTSNNKNYLA RASQGISSYLA RASQSVSSSYLA	KSSQSVFYTS	RASQSVSSSYLA	RASQSVSSSYLA	RASQSVSSSYLA
	SEQ ID	12 18	17	84	13	20	21	SEQ ID NO:	3 3 4 3 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	39	40	41	42

-IG. 4A

TITLE: AUTOANT' DIES TO GLUCOSE-6-PHOSPHAT SOMERASE AND THEIR

iPARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al. SERIAL NO.: 09/828,708

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GLEWVA	GLQWMG GLEWVS	SLEWIG	SLEWMG	FR4 WGQGTLVTVSS	WGQGTVVTVSS	WGQGIVVNVFS	WGKGTTVTVSS
FR2 WVRQAPGKGLEWVA	WVRQAPGQGLQWMG WVRQAPGKGLEWVS	WVRQPVGKGLEWIG	WVRQAPGQGLEWMG	SEQ ID NO: 76 76 76	77 78	79	80
SEQ ID NO: 64 64 64	65 66	29	89				
FR1 GGGVVQPGRSLKLSCAASGFTFSAWLRV	GAEVRKPGTSVRISCRASGNTFT GGGLVQPGGSLRLSCATSGFIFN	GPGLVRPSQTLSLTCPVSPGSIK	GAEVKKPGSSVKVSCRASGGTFS	FR3 RFTISKDNSKNTLYLQMNSLRIDDTAVYYCAI	RVSLTRDRSSNTVFLELSGLTEEDTALYFCAR RFTISRDNSKNTAFLRMNSQRAEDTAVYYCAK	RVSMSVDMSRSQFFLELRDVTAADTAVYYCAR	RVTITADDSTNTAYMGLSSLRSGDTAVYYCAR
SEQ ID NO: 57 58 59	. 60	62	. 63	SEQ ID NO: 69 70 71	72	74	75

FIG. 4B

TITLE: AUTOANT

DIES TO GLUCOSE-6-PHOSPHAT. SOMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

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	FR2	WYQQKPGQPPKLLIY WYQLKPGKAPKLLIY WYQQKPGQAPRLLIY	WYQQKPGQPPKLLIY	WYQQRPGQAPRLLIY	WYQQKPGQAPRLLIY	WYQQKPGQAPRLLIY) NO: FR4	FGQGTKLEIKRTVA FGGGAKVGIRRTVA FGQGTKVEIKRTVA	FGQGTKLEIKRTVA	FGQGTRLEIKRTVA	FGQGTRLEIKRTVA	FGQGTKVEIKRTVA
hain	 .	·					SEQ ID NO:	102 103 104	105	106	107	108
Framework Regions, Light Chain	SEQ ID NO:	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	91	92	93	. 46		AEDVAVYYC EDFATYYC EDFAVYYC	AEDVAVYYC	EDTGTYYC	EDFAVYYC	EDFAVYYC
	FR1	PDSLAVSLGERATINC PSFLSASVGDRVTITC PGTLSLSPGERATLSC	PDSLAVSLGERATINC	PGTLSLSPGEGATLSC	PGTLSLSPGEGATLSC	PGTLSLSPGERVTLSC	FR3	GVPDRFSGSGSGTDFTLTISSLQAEDVAVYYC GVPSRFSGSGSGTEFTLTISSLQPEDFATYYC GIPDRFSGSGSGTDFTLTISRLEPEDFAVYYC	GVPDRFSGSGSGTDFTLTISSLQAEDVAVYYC	GIPDRESGSGSGTDFSFTISSLQPEDTGTYYC	GIPDRFSGSGSGTDFTLTISRLEPEDFAVYYC	GIPDRESGSGSGTDFTLTISRLEPEDFAVYYC
	SEQ ID NO:	81 83	84	85	86	87	SEQ ID NO:	95 96 97	86	66	100	101

FIG. 4B Cont'd

AUTOANTI. DIES TO GLUCOSE-6-PHOSPHATL TITLE: SOMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISEASE Henrik Ditzel et al.

INVENTORS NAME: 09/828,708

SERIAL NO .:

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GAACTACTTAGCTTGGTACCAGCAGAAACCAGGCCAGCCTCCTAAGTTGCTCATTTACTGGGCATCCACCCGGGAATCCGGGGTCC CTGACCGATTCAGTGGCAGCGGGTCTGGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGGCTGAAGATGTGGCAGTTTATTAC TGTCAGCAATATTATGATTCGTACACTTTTTGGCCAGGGGACCAAGCTGGAGATCAAACGAACTGTGGCT

LIGHT CHAIN NUCLEOTIDE SEQUENCE OF ANTI-GPI ANTIBODIES

A4 - SEQ ID NO:112

D2 - SEQ ID NO:113

CCATCCTTCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGGCCAGTCAAGGCATTAGCAGTTATTTAGCCTGGTAT CAGCTAAAACCGGGGAAAGCCCCTAAGCTCCTGATCTATGCTGCATCCACTTTGCAAAGTGGGGTCCCATCAAGGTTCAGCGGCAG TGGATCTGGGACAGAATTCACTCTCACAATAAGCAGCCTGCAGCCTGAAGATTTTGCAACTTATTACTGTCAACAGCTTAATAGTT ACCCTCTCACTTTCGGCGGAGGGGCCAAGGTGGGGATCAGACGAACTGTGGCT

D121 - SEQ ID NO:114

GTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATCCAGCAGGGCCACTGGCATCCCAGACAGGTTCAGTG CCAGGCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTTAGCAGCAGCTACTTAGCCTG GCAGTGGGTCTGGGACAGACITCACTCTCACCATCAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGT AG CTCACCTCGGACGTTCGGCCAAGGGACCAAGGTGGAAATCAAACGAACTGTGGCT

B2 - SEQ ID NO:115

GAACTACTTAGCTTGGTACCAGCAGAAACCAGGCCAGCCTCCTAAGTTGCTCATTTACTGGGCATCCACCCGGGAATCCGGGGTCC CTGACCGATTCAGTGGCAGCGGGTCTGGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGGCTGAAGATGTGGCAGTTTATTAC IGTCAGCAATATTATGATTCGTACACTTTTGGCCAGGGGACCAAGCTGGAGATCAA ACGAACTGTGGCT

AUTOANTI TITLE:

DIES TO GLUCOSE-6-PHOSPHATI SOMERASE AND THEIR

INVENTORS NAME: Henrik Ditzel et al.

09/828,708 SERIAL NO .:

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CCAGGCACCCTGTCATTGTCTCCAGGGGAAGGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTTAGCAGCAGCTACCTAGCCTG GAAGTGGATCTGGGACAGATTTCAGTTTCACCATCAGCAGTCTGCAGCCTGAAGATACTGGGACATATTACTGTCAACAATATGAT AATGTCCCTGACACTTTTGGCCAGGGGACCAGGCTGGAGATCAAACGAACTGTGGCT

D5 - SEQ ID NO:117

D14 - SEQ ID NO:116

GTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATCCAGTAGGGCCACTGGCATCCCAGACAGGTTCAGTG CCAGGCACCCTGTCTTTGTCTCCAGGGGAAGGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTTAGCAGCAGCTACTTAGCCTG GCAGTGGGTCTGGGACAGACTTCACTCTCACCATCAGCAGACTGGAGCCTGAAGATTTTGCAGTGTATTACTGTCAGCAGTATGGT ACCT CACCCCTCTTCGGCCAAGGGACACGACTGGAGATTAAACGAACTGTGGCT

A7 - SEQ ID NO:118

GTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATGGTGCATCCAGCAGGGCCACTGGCATCCCAGACAGGTTCAGTG GCAGTGGGTCTGGGACAGACTTCACTCTCACCATCAGCAGACTGGAGCCTGAAGACTTTGCAGTTTATTACTGTCAGCAGTATGGA AGCTCACCTCGGACGTTCGGCCAAGGGACCAAGGTGGAAATCAAACGAACTGTGGCT

5A Cont'd FIG.

AUTOANT DIES TO GLUCOSE-6-PHOSPHAT SOMERASE AND

PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

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GCCGATTCACCATCTCCAAGGACAATTCTAAGAACACACTGTATCTGCAAATGAACAGCCTGAGAATTGACGACACGGCTGTCTAT GAGGCGTGGTCCAGCCTGGGAGGTCCCTGAAACTCTCCTGTGCAGCCTCTGGATTCACATTCAGTAGTCATGGCTCGCACTGGGTC CGCCAAGCTCCAGGCAAGGGGGCTGGAGTGGGTGGCACTTTTGTCGTCTGATGGAAGTAAATTCTATATAGAATCCGTGAAGG TACTGTGCGATTTCCCTGGTGGGAACTACCGCTTTTAACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCA

HEAVY CHAIN NUCLEOTIDE SEQUENCE OF ANTI-GPI ANTIBODIES

A4-H - SEQ ID NO:116

D2-H - SEQ ID NO:117

CGATTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAATTGAGCAGCCTAAGACCTGAGGACACGGCTGTCTATTA CCAGGCTCCAGGCAAGGGGCTGGAGTGGCTGTGATATTCTATGATGGAAGTAATAATACTATGCAGACTCCGTGAAGGGC GGCGTGGTCCAAGCATGGAGGTCCCTAAGACTCTCTGTGTAGCCTGTGGATTCACTTCAGTAGTCATACCATGCACTGGGTCCG TTGTACGAATTCCGAGGTGGGAGCTACCGCTTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAG

D121-H - SEQ ID NO:118

AGGGCCGATTCACCATCTCCAGAGACAATTCCAAGAACACTCTATATCTGCAAATGAACAGCCTGAGAGTTGAGGACACGGCTGTT GGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTTTTCCTGTGCAGCCTCTGGATTCACCTTCAGTTCCTATACTTTCCACTGG GTCCGCCAGGCTCCAGGCAAGGGGGCTGGAGTGGCTGGCAGTTATCATATGATGGAAACAAGAAATACTACGCAGACTCCGTGA TATTACTGTGCGATTTCCATAGTGGGAACTACCGCTTTTAACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC

AUTOANT TITLE: DIES TO GLUCOSE-6-PHOSPHAT SOMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISEASE

INVENTORS NAME: Henrik Ditzel et al.

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GGGGCTGAGGGTGAGGAAGCCCCGGACCTCCGTGAGGATCTCTTGCAGGGCATCTGGAAACACCTTCACTGGCCACCATATTCACTG GGTCCGCCAGGCCCCTGGACAAGGCCTTCAGTGGATGGGAAGAATCAACCCGACTGGCGGCGGCGTTAGTCTCGCACAGAGTTTC CAGGACAGAGTCAGCCTGACCAGGGACAGGTCGTCCAATACAGTCTTCTTGGAACTGAGCGGCCTCACGGAGGAGGACACGGCCT TATATITICTGTGCGAGGCCCCGATITAACATGATCCGGGAACCTCTTGACCTCTGGGGGCCAGGGGACAGTGGTCACCGTCTCCTCA

D14-H - SEQ ID NO:120

B2-H - SEQ ID NO:119

AAGGGCCGGTTCACCATCTCCAGAGACAATTCCAAGAACACGGCGTTTCTGCGAATGAACAGCCAGAGAGCGAAGACACGGCCG TTTATTACTGTGCGAAAGATCTGTCGAGTGGTGCATACTACTACTACGGGATGGACGTCTGGGGCCAAGGGACCACGGTCACGGTC GGGGGAGGCTTGGTACAGCCTGGGGGGTCCCTGAGACTCTCCTGTGCAACCTCTGGATTCATCTTTAACAGCTATGCATGAACTG GGTCCGCCAGGCTCCAGGGAAGGGGCTTGAGTGGGTCTCACGTATTAGTGGAAATAGTGGAAGCACATTCTACGCAGACTCCGTG

D5-H - SEQ ID NO:121

GGCCCAGGATTGGTGAGGCCATCACAGACCCTATCCCTCACCTGCACTGTCTCTCCAGGCTCCATTAAAGGTGATAGTTACTTCTGG TCGGGAGTCGAGTCAGTATGTCAGTGGACATGTCCAGGAGTCAGTTTTTCTTGGAATTGAGAGATGTGACCGCCGCAGACACGGCC AGCTGGGTCCGTCAGCCCGTAGGGAAGGGACTGGAGTGGATAGGGCGTATCTACGGCAGAGGGACTACCAATTACAACCGTGTTT GTCTATTACTGTGCGAGAGACAAGGGGTCCGAATACTCCTACTTTGACCCCTGGGGCCAGGGAATAGTGGTCAACGTCTTCTCA

5B Cont'd

TITLE: AUTOANTI DIES TO GLUCOSE-6-PHOSPHATE SOMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

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ACGCACAGAAGTTCCAGGGCAGAGTCACGATTACCGCGGACGATTCCACGAACACAGCCTACATGGGTCTGAGCAGCC TGAGATCTGGGGACACGGCCGTGTATTACTGCGCGAGAGTGGCCTATGATGGTAGTGGCTATTACAACAATATCCCAA AGATCTACTACTACTCCTACATGGACGTCTGGGGCAAAGGGACCACGGTCACCGTGTCCTCAGC

GGGCTGAGGTGAAGAAGCCTGGGTCCTCGGTGAAGGTCTCCTGCAGGGCTTCTGGAGGCACATTCAGCAGATATGCTA

A7-H - SEQ ID NO:122

TITLE: AUTOANTIPODIES TO GLUCOSE-6-PHOSPHATT ISOMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DILASE INVENTORS NAME: Henrik Ditzel et al.

SERIAL NO.: 09/828,708

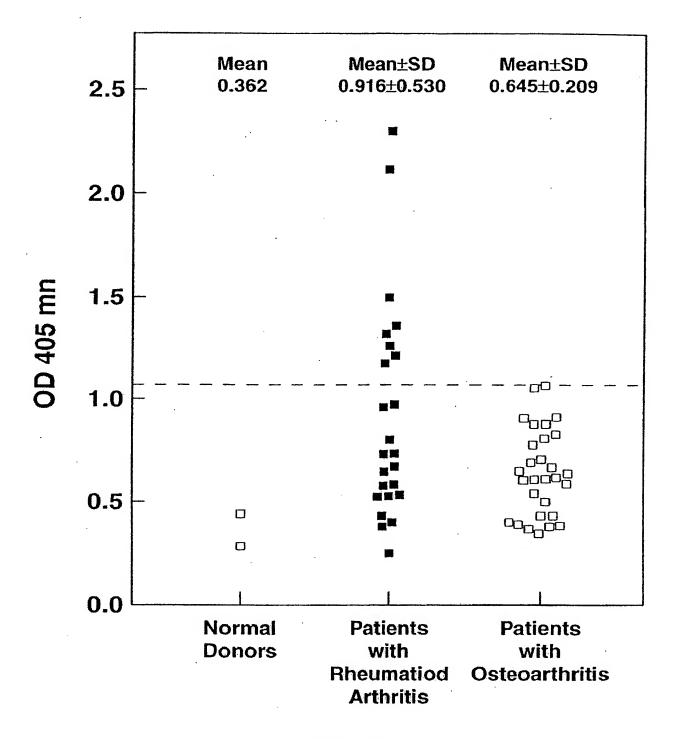


FIG. 6

TITLE: AUTOANT DIES TO GLUCOSE-6-PHOSPHAT SOMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al.

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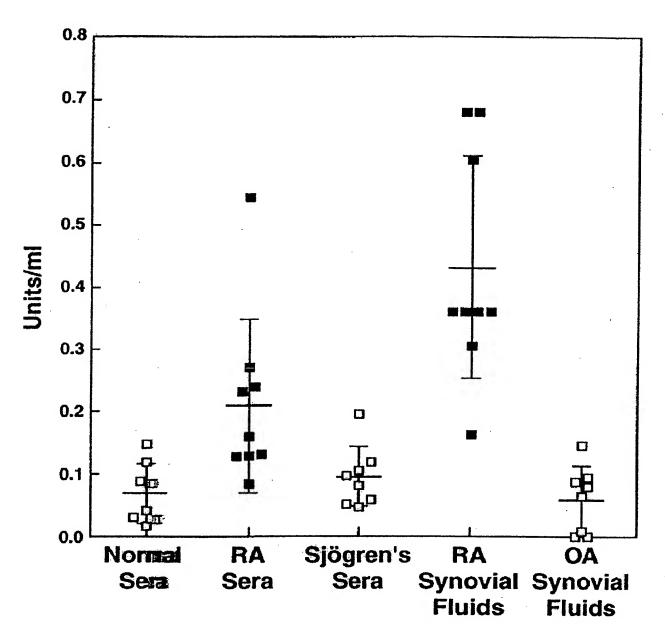
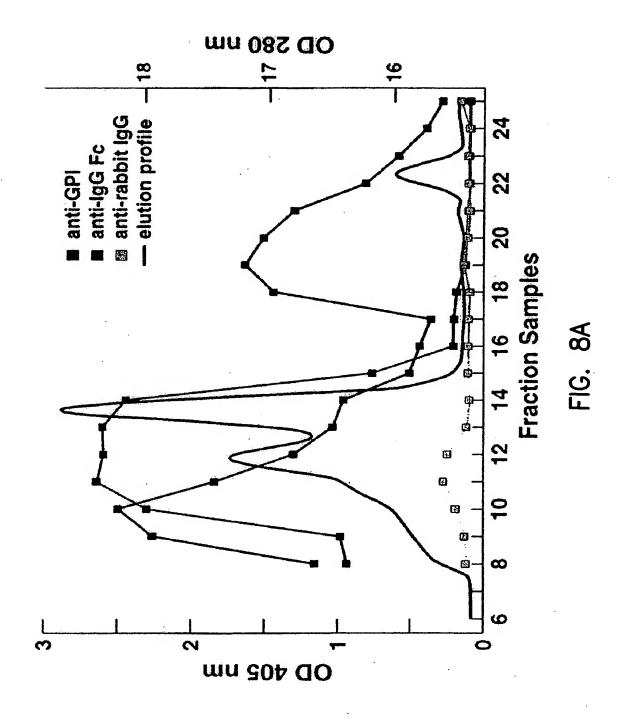


FIG. 7

TITLE: AUTOANT DIES TO GLUCOSE-6-PHOSPHAT SOMERASE AND THEIR

PARTICIPATION IN AUTOIMMUNE DISLASE INVENTORS NAME: Henrik Ditzel et al. SERIAL NO.: 09/828,708



TITLE: AUTOANTIL JIES TO GLUCOSE-6-PHOSPHATE SOMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al. SERIAL NO.: 09/828,708

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C UC 8 9 10 11 12 13 14

FIG. 8B

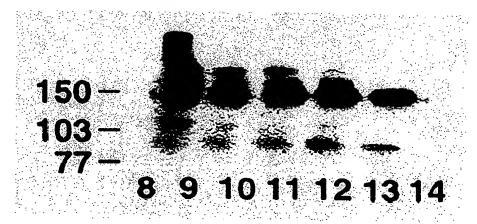


FIG. 8C

TITLE: AUTOANTIE DIES TO GLUCOSE-6-PHOSPHATE SOMERASE AND THEIR PARTICIPATION IN AUTOIMMUNE DISEASE INVENTORS NAME: Henrik Ditzel et al. SERIAL NO.: 09/828,708

